

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,608,419 B2  
DATED : August 19, 2003  
INVENTOR(S) : Manoj Ramprasad Shah et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 9,

Line 60, "cyltridncally" has been replaced with -- cylindrically --.

Signed and Sealed this  
Seventh Day of October, 2003



JAMES E. ROGAN  
*Director of the United States Patent and Trademark Office*



*P*

PATENT

*COPC*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent No. 6,608,419

Inventors: Manoj Ramprasad SHAH, *et al.*

) Filed: December 27, 2000

Issue Date: August 19, 2003

) Attorney Docket No. 011777.00023

For: FLUX SHUNT FOR A POWER GENERATOR STATOR ASSEMBLY

**REQUEST FOR CERTIFICATE OF CORRECTION** *Certificate*

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SEP 12 2003

of Correction

Sir:

Pursuant to 35 U.S.C. § 254 and 37 C.F.R. § 1.322, this is a request for the issuance of a Certificate of Correction in the above-identified patent. Two (2) copies of PTO Form 1050 are appended. The complete Certificate of Correction involves one (1) page.

The mistake identified in the appended Form occurred through no fault of the Applicants, as clearly disclosed by the records of the application, which matured into this patent. Enclosed for your convenience are the relevant portions of an Amendment faxed to the Patent and Trademark Office on February 25, 2003.

Issuance of the Certificate of Correction containing the correction is respectfully requested. Since this change is necessitated through no fault of the Applicants, no fee is believed to be associated with this request. Nonetheless, should the Patent and Trademark Office determine that a fee is required, please charge our Deposit Account No. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: Sept. 9, 2003

By: Anthony W. Kandare  
Anthony W. Kandare  
Reg. No. 48,830

1001 G Street, N.W. (11th Fl.)  
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SEP 12 2003

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO.: 6,608,419 *B2*

DATED: August 19, 2003

INVENTORS: Manoj Ramprasad Shah, et al.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 9, line 31

Line 60, "cyltridncally" has been replaced with --cylindrically--.

Mailing Address of Sender:

Banner & Witcoff, Ltd.  
11th Floor  
1001 G Street, N.W.  
Washington, DC 20001-4597

U.S. PAT. NO 6,608,419

No. of add'l copies  
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*SEP 12 2003*

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO.: 6,608,419

DATED: August 19, 2003

INVENTORS: Manoj Ramprasad Shah, et al.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 9 Claim 3,

Line 60, "cyltridncally" has been replaced with --cylindrically--.

Mailing-Address of Sender:

U.S. PAT. NO 6,608,419

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FORM PTO 1050 (Rev.2-93)

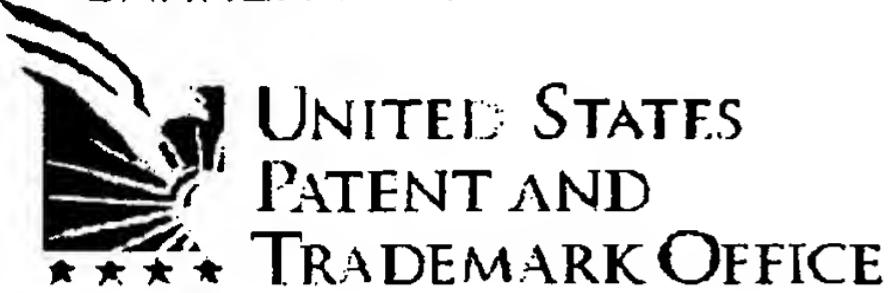
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02/25/2003 13:57 FAX 2025089299	Banner & Witcoff	0001
BOX AF		
PATENT APPLICATION		
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE		
In Re Application Of SHAH et al. ) Art Unit 2324 Serial No.: 09/749,197 ) Examiner: P. Cuevas Filed: December 27, 2000 ) Atty. Dkt. No. 011777.00023 For: FLUX SHUNT FOR A POWER GENERATOR STATOR ASSEMBLY		
<u>AMENDMENT PURSUANT TO 37 CFR 1.116</u>		
Commissioner For Patents BOX AF Washington, D. C. 20231  Sir:		This paper of 9 pages is being faxed to 703 872 9319 on February 25, 2003. <i>Anthony W. Kandare</i> Anthony W. Kandare Reg. No. 48,830
The Office Action mailed December 9, 2002, has been carefully considered and this paper is responsive thereto. No fees are believed due as this paper is being filed in the shortened statutory period. If the Commissioner should determine otherwise, authorization is given to debit Deposit Account: 19-0733. Applicant's request: entry of the following amendment.		
Received from <2025089299> at 02/25/03 1:57:49 PM [Eastern Standard Time]		

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**DOCKETED**  
*DST*  
 FEB 25 2003  
*Amendment Atty*  
*Final filed*  
*2/25/2003*



**BOX AF**

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Application Of )  
 ) Art Unit: 2834  
 SHAH et al. )  
 ) Examiner: P. Cuevas  
 Serial No.: 09/749,197 )  
 ) Atty. Dkt. No. 011777.00023  
 Filed: December 27, 2000 )  
 )  
 For: FLUX SHUNT FOR A POWER )  
 GENERATOR STATOR )  
 ASSEMBLY )

**AMENDMENT PURSUANT TO 37 CFR 1.116**

Commissioner For Patents  
**BOX AF**  
Washington, D. C. 20231

Sir:

This paper of 9 pages is being faxed to  
703 872 9319 on February 25, 2003.

*Anthony W. Kandare*  
Anthony W. Kandare  
Reg. No. 48,830

The Office Action mailed December 9, 2002, has been carefully considered and this paper is responsive thereto. No fees are believed due as this paper is being filed in the shortened statutory period. If the Commissioner should determine otherwise, authorization is given to debit Deposit Account 19-0733. Applicants request entry of the following amendment.

**In The Claims:**

Please cancel claims 13-19, 21, 22, and 30 without prejudice or disclaimer and amend claim 27 as follows:

1. (Previously Amended) A flux shunt for use in a power generator comprising a stator having a stator core and a rotor rotatably disposed within the stator, the flux shunt comprising:

a convex outer surface adapted to be disposed adjacent to a radial inner surface of the stator core; and

a concave inner surface adapted to be disposed adjacent to a radial outer surface of the rotor;

wherein the flux shunt attracts fringing magnetic flux in a power generator and wherein a permeability of the flux shunt is greater than a permeability of the stator core.

2. (Original) The flux shunt of claim 1, wherein the flux shunt comprises a magnetically isotropic material.

3. (Original) The flux shunt of claim 1, wherein the flux shunt is substantially cylindrically-shaped.

4. (Original) The flux shunt of claim 1, wherein the flux shunt comprises multiple discrete rings capable of being disposed around the periphery of an inner surface of the stator.

5. (Original) The flux shunt of claim 1, wherein the flux shunt comprises plurality of segments capable of being discretely disposed around the periphery of an inner surface of the stator.

6. (Previously Amended) A power generator stator assembly comprising:  
a substantially cylindrical stator core comprising a radial inner surface, an outer surface, and two ends; and  
a flux shunt having a convex outer surface, the convex outer surface disposed adjacent to the inner surface of the stator core, the flux shunt disposed at one end of the two ends of the stator core, wherein a permeability of the flux shunt is greater than a permeability of the stator core.

7. (Original) The power generator stator assembly of claim 6, wherein the flux shunt comprises a first flux shunt disposed at a first end of the two ends, wherein the power generator stator assembly further comprises a second flux shunt disposed adjacent to the inner surface of the stator core at a second end of the two ends of the stator core, and wherein a permeability of each of the first flux shunt and the second flux shunt is greater than a permeability of the stator core.

8. (Original) The power generator stator assembly of claim 6, wherein the flux shunt comprises an approximately cylindrically-shaped insert that is disposed adjacent to the inner surface of the proximal end.

9. (Previously Amended) The power generator stator assembly of claim 8, wherein the inner surface of the stator core comprises multiple steps stepping the stator core away from a rotor disposed inside of the stator core, and wherein the flux shunt outer surface mates with the multiple steps of the stator core.

10. (Original) The power generator stator assembly of claim 6, wherein the flux shunt comprises a plurality of approximately ring-shaped inserts.

11. (Original) The power generator stator assembly of claim 6, wherein the flux shunt comprises a magnetically isotropic material.

12. (Original) The power generator stator assembly of claim 6, wherein the flux shunt comprises an inner surface and an outer surface, wherein the outer surface of the flux shunt is disposed adjacent to the inner surface of the stator core, and wherein the power generator stator assembly further comprises a flux shunt retainer that is disposed adjacent to the inner surface of the flux shunt.

13-19 (Cancelled).

20. (Previously Amended) A power generator comprising:  
an approximately cylindrically-shaped stator comprising a stator core, a radial inner  
surface, an outer surface, and two ends;  
a flux shunt radially disposed adjacent to the inner surface of the stator at approximately  
an end of the two ends of the stator; and  
a rotor rotatably disposed inside of the stator;  
wherein a rotation of the rotor causes an induction of a magnetic flux that is greater than  
the magnetic flux that would be induced in the absence of the flux shunt.

21-22 (Cancelled)

23. (Previously Added) The flux shunt of claim 2, wherein the magnetically  
isotropic material comprises powdered iron.

24. (Previously Added) The power generator stator assembly of claim 11, wherein  
the magnetically isotropic material comprises powdered iron.

25. (Previously Added) The power generator stator assembly of claim 12, wherein  
the flux retainer is affixed to an outside space block disposed at one of the two ends.

26. (Previously Added) The power generator stator assembly of claim 6, wherein the convex outer surface of the flux shunt is attached to the radial inner surface of the stator core.

27. (Previously Added, Currently Amended) A power generator stator assembly comprising:

a stator core having a radial inner surface; and  
a flux shunt formed from an electrically resistive, thermally conductive, and magnetically permeable material, the flux shunt being having a convex outer surface disposed adjacent to the radial inner surface of the stator core.

28. (Previously Added) The power generator stator assembly of claim 27, wherein the electrically resistive, thermally conductive, and magnetically permeable material comprises a magnetically isotropic material.

29. (Previously Added) The power generator stator assembly of claim 28, wherein the magnetically isotropic material comprises powdered iron.

30. (Cancelled)

31. (Previously Added) The power generator stator assembly of claim 27, wherein the stator core comprises opposing axial ends and the flux shunt is disposed at one of the opposing axial ends.

## REMARKS

Reconsideration and allowance of the subject application are respectfully requested. Claims 13-19, 21, 22 and 30 have been cancelled. Claim 27 has been amended. The basis for the claim amendment may be found throughout the specification, drawings and claims as originally filed. No new matter has been added.

### ***Claim Rejections – 35 USC § 103***

Claims 27-31 stand rejected under 35 U.S.C. 103(a) as allegedly being unpatentable over United States Patent No. 4,258,281 issued to Calfo et al. (hereinafter “Calfo”) in view of common knowledge in the art. Applicants respectfully traverse these rejections.

Independent claim 27, as amended, recites the following:

27. (Amended) A power generator stator assembly comprising:  
a stator core having a radial inner surface; and  
a flux shunt formed from an electrically resistive, thermally conductive, and magnetically permeable material, the flux shunt having a convex outer surface disposed adjacent to the radial inner surface of the stator core.

In contrast, Calfo discloses flux shunts 51 for a dynamoelectric machine stator that are disposed outside the stator core 3 along the “periphery of the core 3.” (column 2, line 52, and Figs. 1, 7, 8, and 10). As such, Calfo does not disclose, teach, or suggest the claimed features of the present invention.

For at least this reason, Applicants respectfully submit that claim 27, as amended, is

allowable over the prior art of record. Also, claims 28, 29, and 31, which ultimately depend from claim 27, are patentably distinct from Calfo for the same reasons as their ultimate base claim and further in view of the novel features recited therein.

Based on the foregoing, this application is in condition for allowance and a Notice to that effect is earnestly solicited.

Respectfully submitted,

**Banner & Witcoff, LTD**

By: *Anthony W. Kandare*  
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Registration No. 48,830

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Date: *Feb. 25, 2003*